

Assoc. Prof. SİBEL ÖZER

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAA-6070-2021

ScopusID: 57197074298

Yoksis Researcher ID: 121815

Education Information

Doctorate, Inonu University, Fen Bilimleri Enstitüsü, Turkey 1990 - 1995

Postgraduate, Inonu University, Fen Bilimleri Enstitüsü, Turkey 1987 - 1990

Undergraduate, Inonu University, Fen-Edebiyat Fakültesi, Turkey 1984 - 1987

Foreign Languages

English, B1 Intermediate

Certificates, Courses and Trainings

Foreign Language, Öğedil, İstanbul Üniversitesi, 1990

Dissertations

Doctorate, Korteweg-de Vries denkleminin nümerik çözümü, Inonu University, Fen Bilimleri Enstitüsü, 1995

Postgraduate, Vizkotiseli serbest yüzey akışkanlar için bir nümerik yöntem, Inonu University, Fen Bilimleri Enstitüsü, 1990

Research Areas

Differential Equations, General Mathematics, Numerical Analysis, Natural Sciences

Academic Titles / Tasks

Associate Professor, Inonu University, Fen-Edebiyat Fakültesi, Matematik, 2022 - Continues

Assistant Professor, Inonu University, Fen-Edebiyat Fakültesi, Matematik, 2018 - 2022

Assistant Professor, Inonu University, Fen-Edebiyat Fakültesi, Matematik, 1996 - 2018

Lecturer, Inonu University, Fen-Edebiyat Fakültesi, Matematik, 1995 - 1996

Research Assistant, Inonu University, Fen-Edebiyat Fakültesi, Matematik, 1988 - 1995

Courses

Kısmi Diferansiyel Denklemler ve Uygulamaları, Doctorate, 2021 - 2022

Analiz II, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016

İleri Nümerik Analiz II, Postgraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016

Diferansiyel Denklemler, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020

Analiz I, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016

İleri Nümerik Analiz I, Undergraduate Double Major, 2020-2021

İleri Nümerik Analiz I, Undergraduate Double Major, 2020-2021

Analiz I, Undergraduate, 2020-2021

Analiz II, Undergraduate, 2020-2021

Diferansiyel Denklemler I, Undergraduate, 2020-2021

Nümerik Analiz, Undergraduate, 2019 - 2020

İleri Nümerik Analiz II, Undergraduate Double Major, 2020-2021

İleri Nümerik Analiz I, Postgraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016

Analiz I, Undergraduate, 2019-2020

Analiz II, Undergraduate, 2019-2020

İleri Nümerik Analiz II, Undergraduate Double Major, 2019-2020

Nümerik Analiz, Undergraduate, 2019-2020

Diferansiyel Denklemler I, Undergraduate, 2019-2020

İleri Nümerik Analiz I, Undergraduate Double Major, 2019-2020

Matematik I, Associate Degree, 2018-2019

Analiz I, Undergraduate, 2018-2019

Diferansiyel Denklemler I, Undergraduate, 2018-2019

Analiz II, Undergraduate, 2018-2019

Diferansiyel Denklemler, Undergraduate, 2018 - 2019

İleri Nümerik Analiz I, Undergraduate Double Major, 2018-2019

Matematik I, Associate Degree, 2017-2018

Nümerik Analiz, Undergraduate, 2017-2018

Analiz II, Undergraduate, 2017-2018

Analiz I, Undergraduate, 2017-2018

Mesleki Matematik, Associate Degree, 2016 - 2017

İleri Nümerik Analiz I, Undergraduate Double Major, 2017-2018

İleri Nümerik Analiz II, Undergraduate Double Major, 2017-2018

Fourier Analiz, Undergraduate, 2017-2018

Fourier Analiz, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016

Fourier Analiz, Undergraduate, 2016-2017

İleri Nümerik Analiz II, Undergraduate Double Major, 2016-2017

Matematik I, Associate Degree, 2016-2017

Analiz II, Undergraduate, 2016-2017

Analiz I, Undergraduate, 2016-2017

İleri Nümerik Analiz I, Undergraduate Double Major, 2016-2017

Mesleki Matematik, Associate Degree, 2016-2017

Matematik I, Associate Degree, 2015 - 2016

Matematik I, Associate Degree, 2015 - 2016

İstatistik, Undergraduate, 2011 - 2012

İleri Analiz II, Undergraduate, 2009 - 2010, 2008 - 2009, 2007 - 2008
İleri Analiz I, Undergraduate, 2009 - 2010, 2008 - 2009, 2007 - 2008
Programlama II, Undergraduate, 2006 - 2007
Nonlinear Denklem Sistemleri, Doctorate, 2006 - 2007
Programlama I, Undergraduate, 2006 - 2007
İleri Programlama, Postgraduate, 2006 - 2007
Nonlinear Diferansiyel Denklemler, Postgraduate, 1999 - 2000
Ölçüm, Undergraduate, 1999 - 2000

Supervised Theses

Özer S., Kısmi Diferansiyel Denklemlerin Nümerik Çözümü Üzerine, Doctorate, H.Beyazıt(Student), Continues
Özer S., 1-Boyutlu Coupled Burgers Denklemi ve Sayısal Çözümü , Postgraduate, K.Karaca(Student), Continues
Özer S., 1-boyutlu Rosenau denkleminin nümerik çözümü üzerine, Postgraduate, Z.ÖRNEK(Student), 2021
Özer S., Burgers denkleminin Galerkin yöntemiyle çözümü üzerine, Postgraduate, H.BEYAZIT(Student), 2019
Özer S., Cebirsel denklem sistemlerinin Adomian ayrışım yöntemi ile çözümü, Postgraduate, S.BATTAL(Student), 2006
Özer S., Adomian ayrışım metodu ve uygulamaları, Postgraduate, M.HANİFİ(Student), 2004

Jury Memberships

Doctorate, Doctorate, İnönü Üniversitesi, March, 2015
Doctorate, Doctorate, İnönü Üniversitesi, March, 2014
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, İnönü Üniversitesi, September, 2012
Doctorate, Doctorate, İnönü Üniversitesi, June, 2008
Post Graduate, Post Graduate, İnönü Üniversitesi, February, 2007
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, İnönü Üniversitesi, September, 2006
Post Graduate, Post Graduate, İnönü Üniversitesi, July, 2005
Post Graduate, Post Graduate, İnönü Üniversitesi, July, 2005
Post Graduate, Post Graduate, İnönü Üniversitesi, July, 2005

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A New Highly Accurate Numerical Scheme for Benjamin–Bona–Mahony–Burgers Equation Describing Small Amplitude Long Wave Propagation**
Kutluay S., Özer S., Yağmurlu N. M.
MEDITERRANEAN JOURNAL OF MATHEMATICS, vol.20, no.173, pp.172-196, 2023 (SCI-Expanded)
- II. **Numerical solution by quintic B-spline collocation finite element method of generalized Rosenau-Kawahara equation**
ÖZER S.
MATHEMATICAL SCIENCES, vol.16, no.3, pp.213-224, 2022 (SCI-Expanded)
- III. **Numerical solutions of nonhomogeneous Rosenau type equations by quintic B-spline collocation method**
ÖZER S., YAĞMURLU N. M.
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.45, no.9, pp.5545-5558, 2022 (SCI-Expanded)
- IV. **Two efficient numerical methods for solving Rosenau-KdV-RLW equation**
ÖZER S.

KUWAIT JOURNAL OF SCIENCE, vol.48, no.1, pp.14-24, 2021 (SCI-Expanded)

V. Numerical solution of the Rosenau-KdV-RLW equation by operator splitting techniques based on B-spline collocation method

Ozer S.

NUMERICAL METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS, vol.35, no.5, pp.1928-1943, 2019 (SCI-Expanded)

VI. A simple similarity-transformation-iterative scheme applied to Korteweg-de Vries equation

Ozis T., Ozer S.

APPLIED MATHEMATICS AND COMPUTATION, vol.173, no.1, pp.19-32, 2006 (SCI-Expanded)

VII. An analytical-numerical method for solving the Korteweg-de Vries equation

OZER S., Kutluay S.

APPLIED MATHEMATICS AND COMPUTATION, vol.164, no.3, pp.789-797, 2005 (SCI-Expanded)

Articles Published in Other Journals

I. An effective numerical technique for the Rosenau-KdV-RLW equation

ÖZER S.

Bahkesir Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.20, no.3, pp.1-14, 2018 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. A Study On Numerical Solution of the Regularized Long Wave Equation

Özer S., Uçar Y., Özçelik D.

THE EIGHTH INTERNATIONAL CONFERENCE ON COMPUTATIONAL MATHEMATICS AND ENGINEERING SCIENCES, Şanlıurfa, Turkey, 17 - 19 May 2024, pp.40

II. Numerical Solution of Nonhomogenous Rosenau Type Equations by Quintic B-spline Collocation Method

ÖZER S., YAĞMURLU N. M.

INTERNATIONAL CONFERENCE ON APPLIED ANALYSIS AND MATHEMATICAL MODELLING (ICAAMM2021), İstanbul, Turkey, 11 June 2021

III. Rosenau-Kawahara denkleminin kollokasyon yöntemiyle sayısal çözümü

ÖZER S.

International Engineering and Sciences Symposium, 20 - 22 June 2019

IV. A New Outlook: A Numerical Study on Rosenau-Burgers Equation via Galerkin Finite Element Method

ÖZER S., KARAAĞAÇ B.

International Conference on Applied Mathematics in Engineering, (ICAME 2018), Balıkesir, Turkey, 27 - 29 June 2018

V. An effective numerical technique for the RosenauKdV-RLW equation

ÖZER S.

ICAME2018, 27 - 29 June 2018

VI. Numerical solution of the Korteweg-de Vries Equation by a linearized implicit method

ÖZER S.

ICMME-2016, 12 - 14 May 2016

VII. Burgers denkleminin ve collocation yöntemi üzerine bir çalışma

ÖZER S.

XXVI. Ulusal Matematik Sempozyumu, Diyarbakır, Turkey, 4 - 07 September 2013

VIII. Bir parametrelili grup teorisine göre benzerlik dönüşümü ve KdV denkleminin

ÖZER S.

XII. Ulusal Matematik Sempozyumu, Malatya, Turkey, 6 - 10 September 1999

IX. Viskoziteli serbest yüzey akışkanları için bir nümerik yöntem

ÖZİŞ T., ÖZER S.

II. Ulusal Matematik Sempozyumu, İzmir, Turkey, 25 - 28 September 1989

Memberships / Tasks in Scientific Organizations

Türk Matematik Derneği, Member, 1989 - Continues, Turkey

Scientific Refereeing

Iranian Of Numerical Analysis And Optimization, Other Indexed Journal, April 2022

NUMERICAL METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS, SCI Journal, May 2020

Metrics

Publication: 17

Citation (WoS): 49

Citation (Scopus): 44

H-Index (WoS): 3

H-Index (Scopus): 2

Congress and Symposium Activities

INTERNATIONAL CONFERENCE ON APPLIED ANALYSIS AND MATHEMATICAL MODELLING (ICAAMM2021), Attendee, İstanbul, Turkey, 2021

International Engineering and Sciences Symposium, Attendee, Siirt, Turkey, 2019

International Conference on Applied Mathematics in Engineering, (ICAME 2018), Attendee, Balıkesir, Turkey, 2018

International Conference on Mathematics and Mathematics Education, Attendee, Elazığ, Turkey, 2016

XXVI. Ulusal Matematik Sempozyumu, Attendee, Diyarbakır, Turkey, 2013

XII. Ulusal Matematik Sempozyumu, Attendee, Malatya, Turkey, 1999

II. Ulusal Matematik Sempozyumu, Attendee, İzmir, Turkey, 1989

Non Academic Experience

İnönü Üniversitesi